

# Ultra mobile USB Spinpoint N2B



Capacity	30GB	40GB	60GB	80GB	120GB
Model	HS03SHR	HS040HR	HS06SHR	HS080HR	HS120JR

## FEATURES

- MAX.80GB Formatted Capacity Per Disk
- Bus Power Usage
- Compatible MAC OS higher
- Support Plug and Play
- Host Swappable
- Direct Bootable under Windows 2000 version up
- High Speed Digital Signal Processor Based Architecture
- ATA S.M.A.R.T Compliant
- ATA 28-bit Address Feature Set
- Multi-Burst On-The-Fly Error Correction
- SilentSeek™
- Free Fall Sensor (optional)

### DRIVE CONFIGURATION

Capacity	30 / 40/ 60 / 80 / 120 GB
Interface	USB 2.0
Rotational Speed	4200 RPM class
Buffer DRAM Size	2 MB
Byte per Sector	512

### PERFORMANCE SPECIFICATION

Average Seek time (typical)	15.0 ms
Average Latency	8.3 ms
Media Transfer Rate (Max.)	458 Mb/s
Interface Transfer Rate (Max.) USB 2.0	480 Mb/s
Drive Ready Time (typical)	3.0 sec

### RELIABILITY SPECIFICATION

Non-recoverable Read Error	1 sector in 10 <sup>13</sup> bits
Controlled Ramp Load/Unload	600,000

### ACOUSTICS

Idle	
30/40/60/80GB	1.6 Bel
120GB	1.8 Bel
Performance Seek	
30/40/60/80GB	2.2 Bel
120GB	2.4 Bel

### POWER REQUIREMENTS

Voltage	+5V ±5%
Spin-up Current (Max.)	350 mA
Seek (typical)	1.10 W
Read/Write (typical)	1.20 W
Idle (typical)	0.45 W
Standby (typical)	0.25 W
Sleep (typical)	0.25 W

### ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	5 ~ 60 °C
Non-operating	-40 ~ 85 °C
Humidity (non-condensing)	
Operating	8 ~ 90 %
Non-operating	8 ~ 90 %
Linear Shock (1/2 sine pulse)	
Operating, 2ms	600 G
Non-operating, 1ms	1500 G
Vibration	
Operating	0.67 Grms
Altitude (relative to sea level)	
Operating	-300 to 3,000 m
Non-operating	-400 to 15,000 m

### PHYSICAL DIMENSION

Height	
30/40/60/80GB	5.0 mm
120GB	8.0 mm
Width	71.0 mm
Length	54.0 mm
Weight (Max.)	
30/40/60/80GB	48 g
120GB	59 g

\* Note : Design and specifications are subject to change without prior notice.

1MB = 1,000,000 Bytes, 1GB = 1,000,000,000 Bytes

\* Accessible capacity may vary as some OS uses binary numbering system for reported capacity.

\* A small portion of the (2MB) buffer memory is reserved for firmware use.

